

Perimeter of Rectilinear Shapes

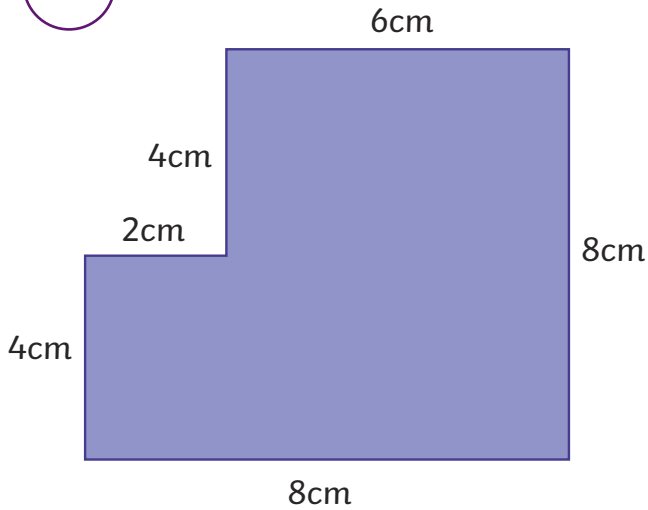
To calculate the perimeter of rectilinear shapes.



1) Calculate the perimeter of these shapes. Show the calculation you did to find the answer.

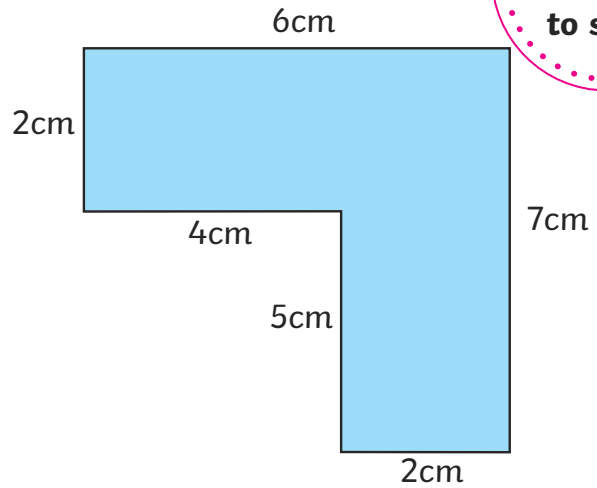
Shapes not drawn to scale

a



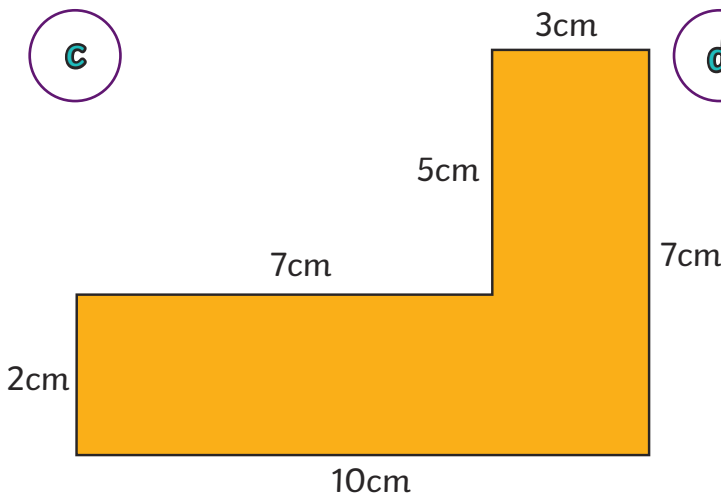
Calculation:

b



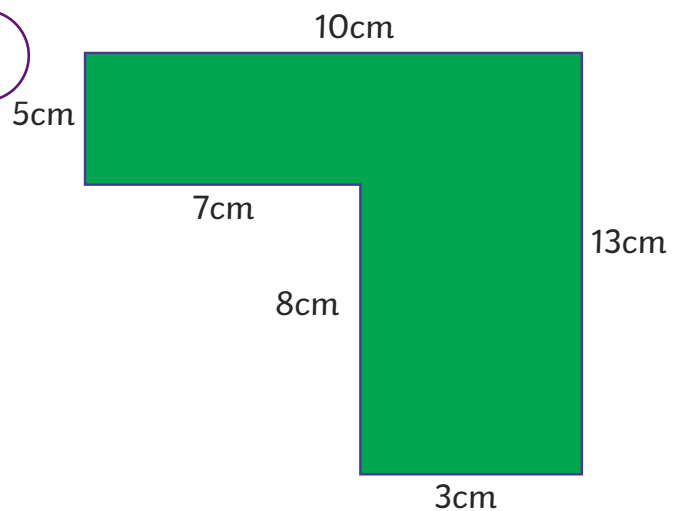
Calculation:

c



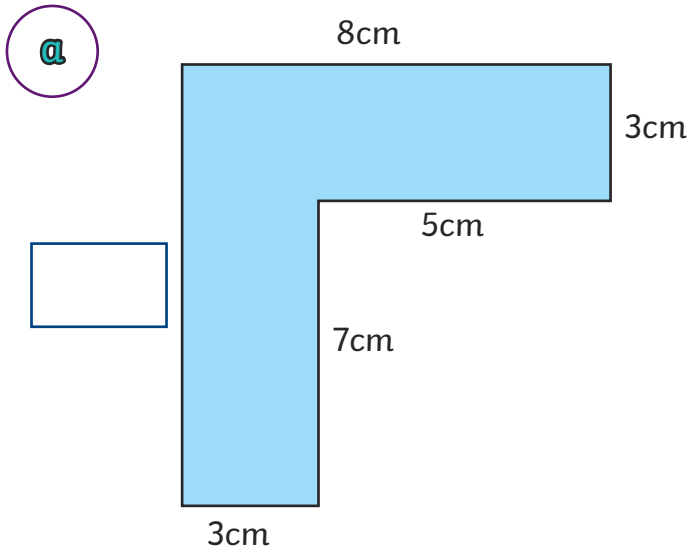
Calculation:

d



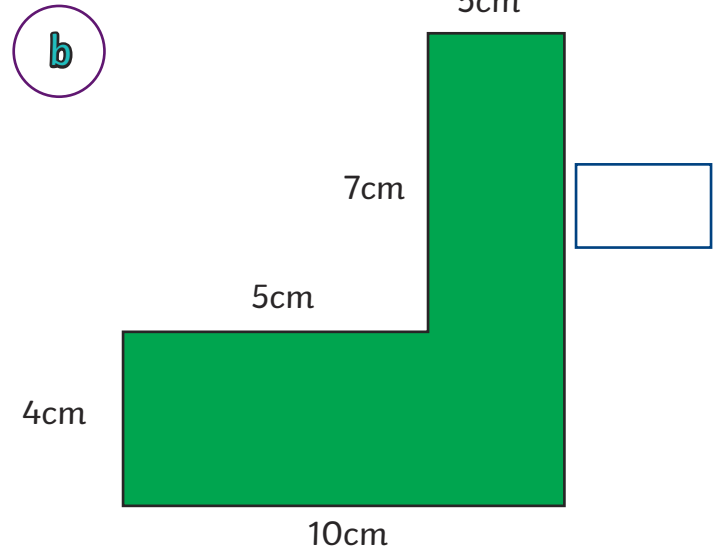
Calculation:

2) In these shapes there is a missing side. Calculate the length of the missing side and then work out the perimeter. Show the calculation you used for the missing side and also the perimeter.



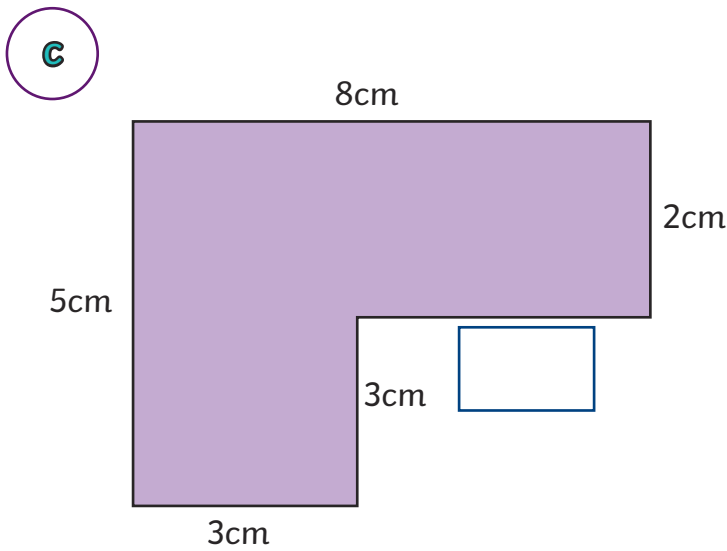
Missing side:

Perimeter:



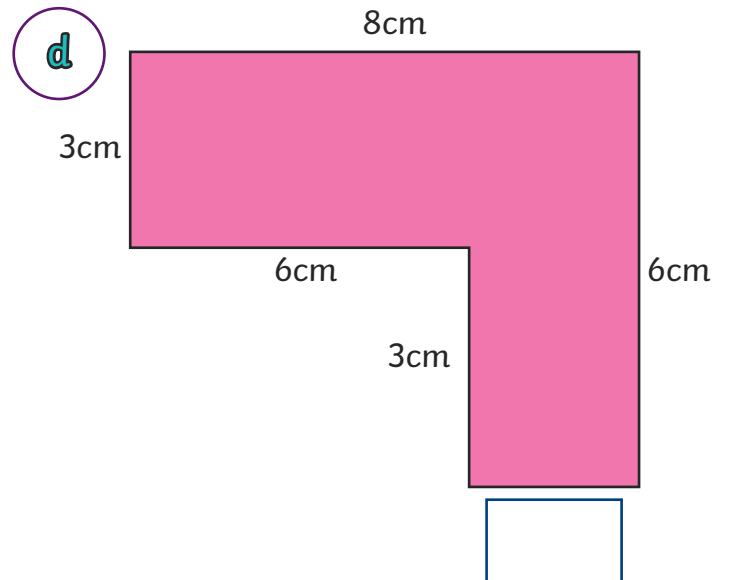
Missing side:

Perimeter:



Missing side:

Perimeter:



Missing side:

Perimeter:

Perimeter of Rectilinear Shapes **Answers**

- 1)
 - a) **perimeter = 32cm**
 - b) **perimeter = 26cm**
 - c) **perimeter = 34cm**
 - d) **perimeter = 46cm**

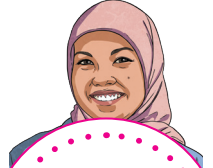
- 2)
 - a) **missing side = 10cm**
perimeter = 36cm
 - b) **missing side = 11cm**
perimeter = 42cm
 - c) **missing side = 5cm**
perimeter = 26cm
 - d) **missing side = 2cm**
perimeter = 28cm

Perimeter of Rectilinear Shapes

To calculate the perimeter of rectilinear shapes.

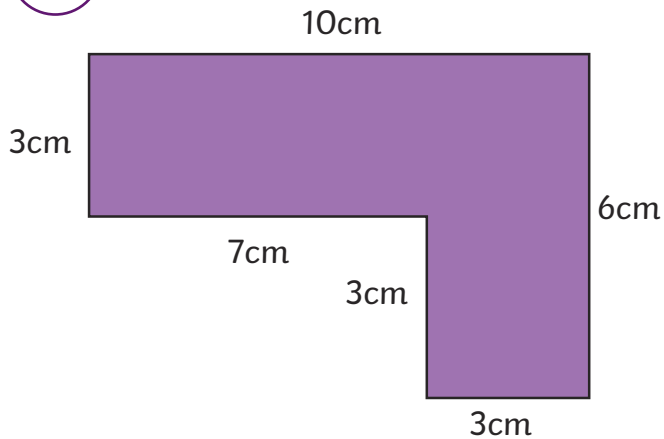


- 1) Calculate the perimeter of these shapes. Remember to order the side measurements in a way that makes the calculation easier to complete.

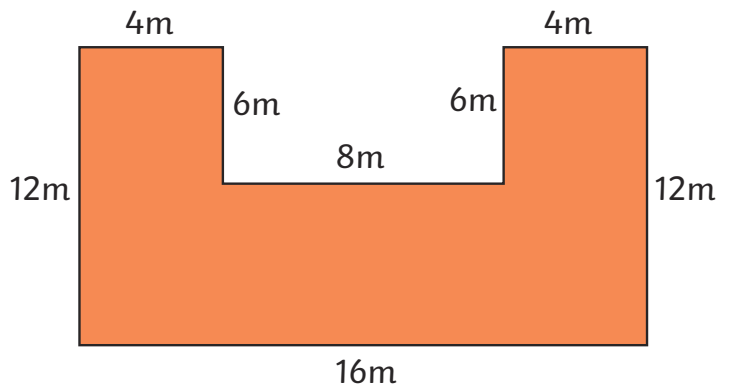


Shapes
not drawn
to scale

a



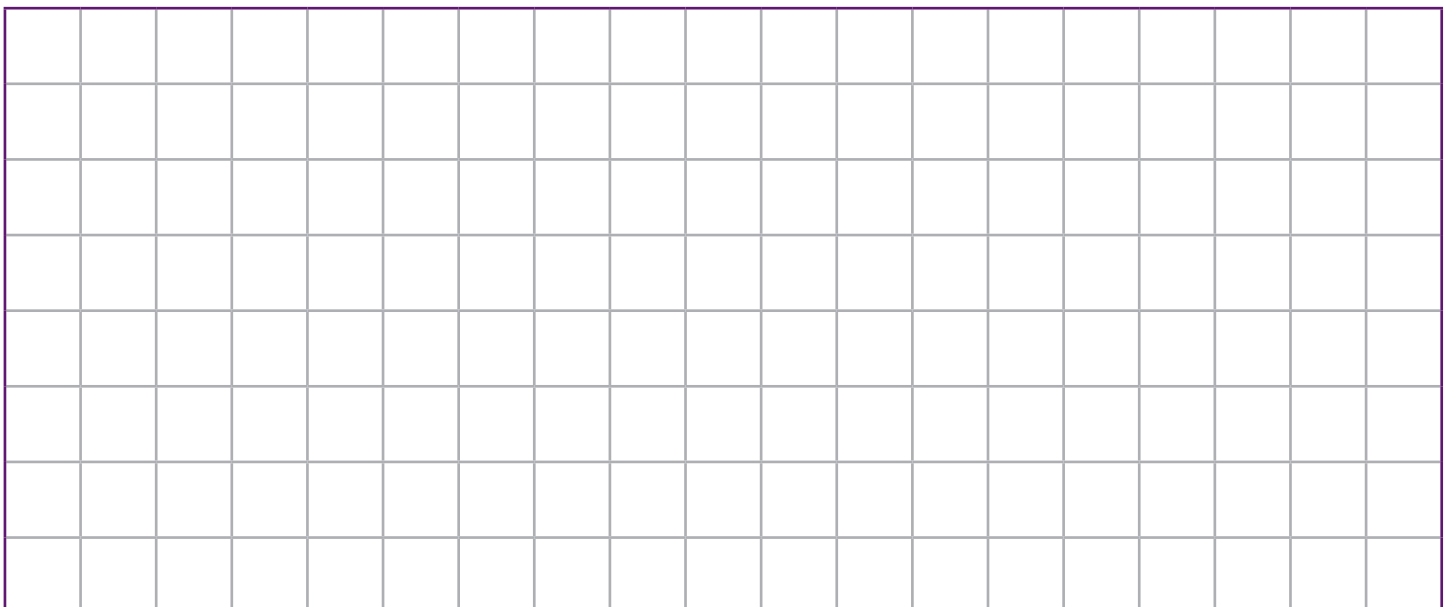
b



Calculation:

Calculation:

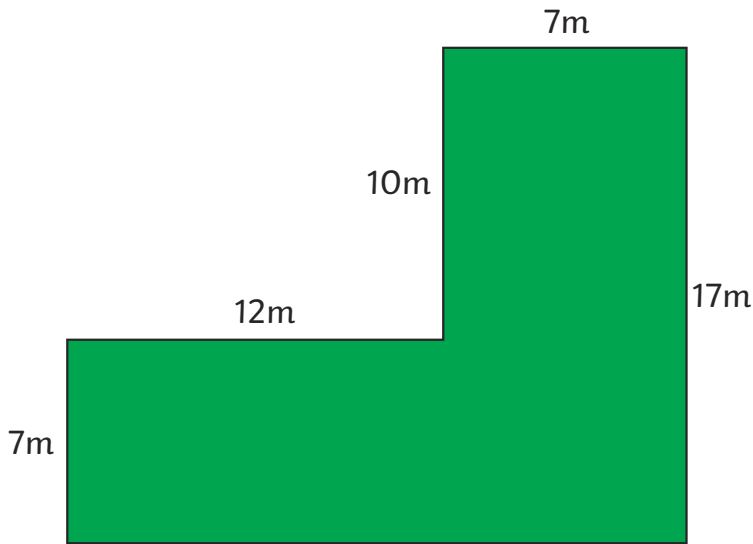
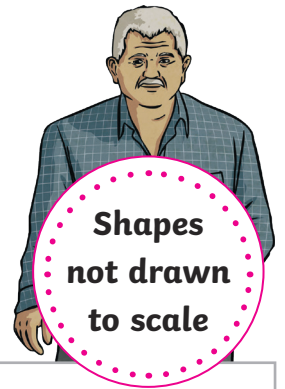
- 2) Use the squared paper to draw a rectilinear shape which has a perimeter of 30. Label the length of the sides and show the calculation which makes a perimeter of 30.



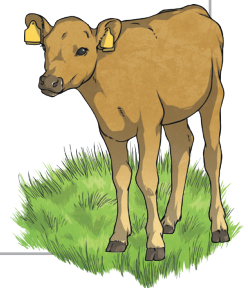
3) Farmer Fred is putting a fence around the outside of one of his fields.

He has written the measurements of most of the sides, but has forgotten to write down the measurement of one side.

Calculate the measurement of the missing side, then work out how much fencing he will need to buy a fence to go around the whole field.

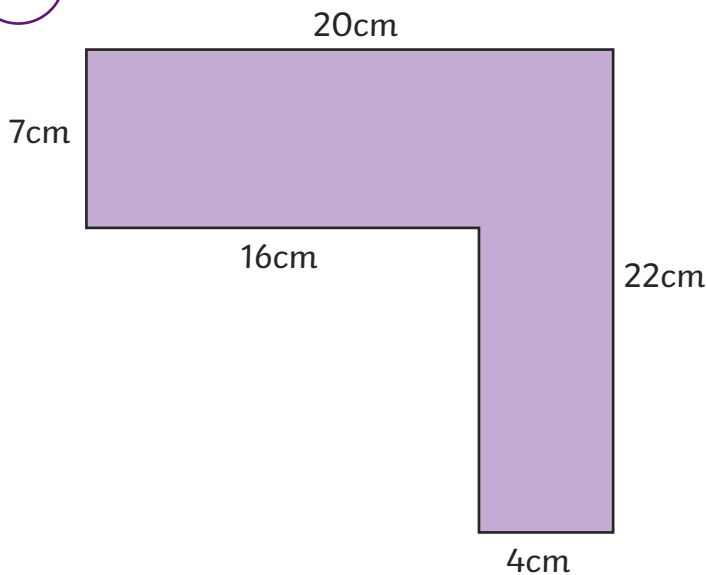


Calculation:

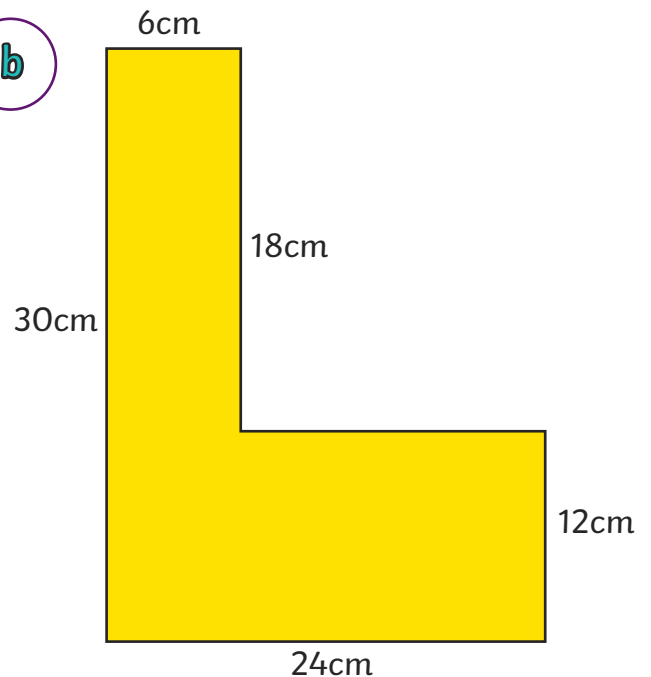


4) Calculate the missing sides in these shapes, then work out the perimeter.

a



b



Calculation:

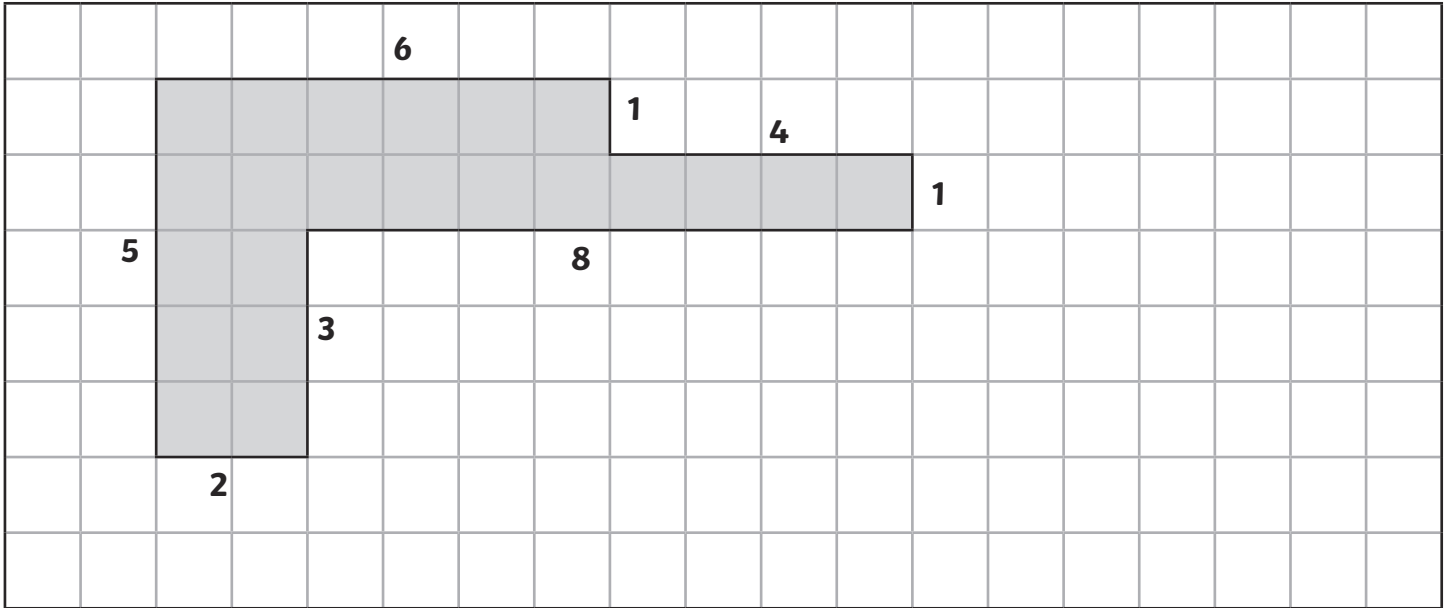
Calculation:

Perimeter of Rectilinear Shapes **Answers**

1) a) 32cm

b) 68cm

2) Multiple answers possible. An example answer:



3) missing side = 19m

fencing required = 72m

4) a) missing side = 15cm

perimeter = 84cm

b) missing side = 18cm

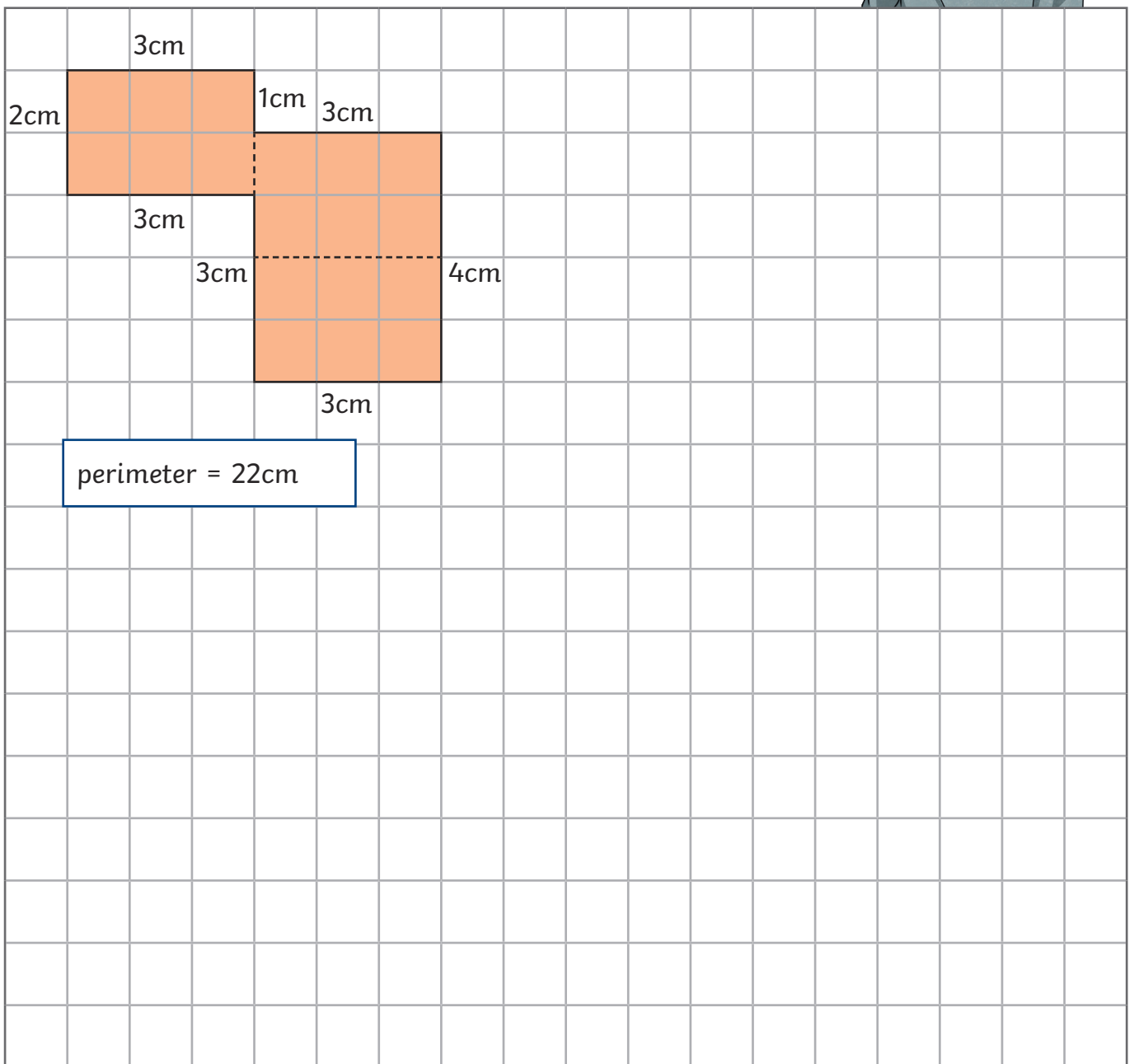
perimeter = 108cm

Perimeter of Rectilinear Shapes

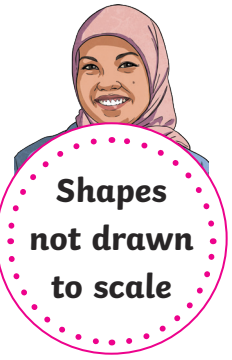
To calculate the perimeter of rectilinear shapes.



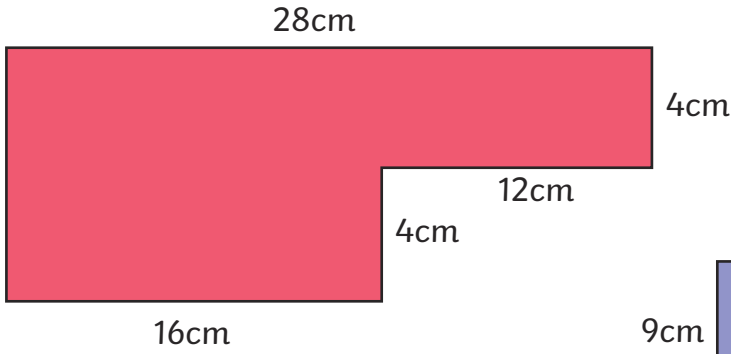
- 1) Draw three rectilinear shapes made up of three rectangles measuring 3cm in length and 2cm width. The shapes need to have different perimeters. One has been done to show you.



2) In these rectilinear shapes, some sides are not shown. Some shapes also have more than one missing side. Calculate the missing side(s) and then the perimeter.



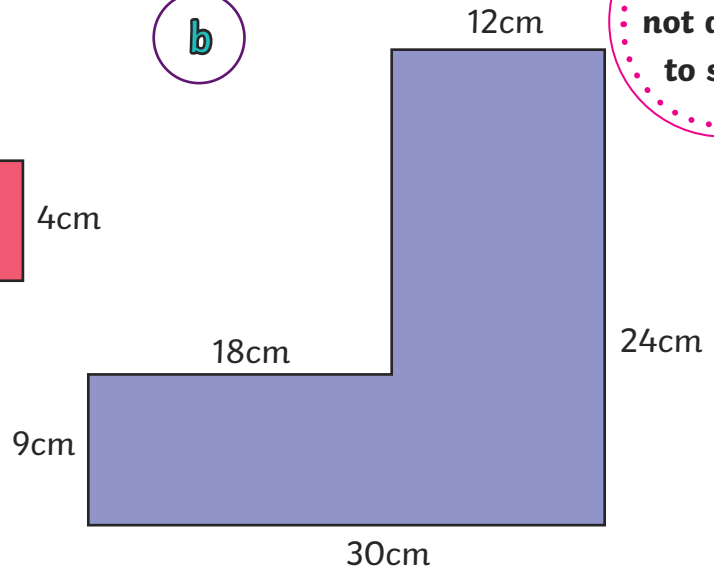
a



Missing side(s):

Perimeter:

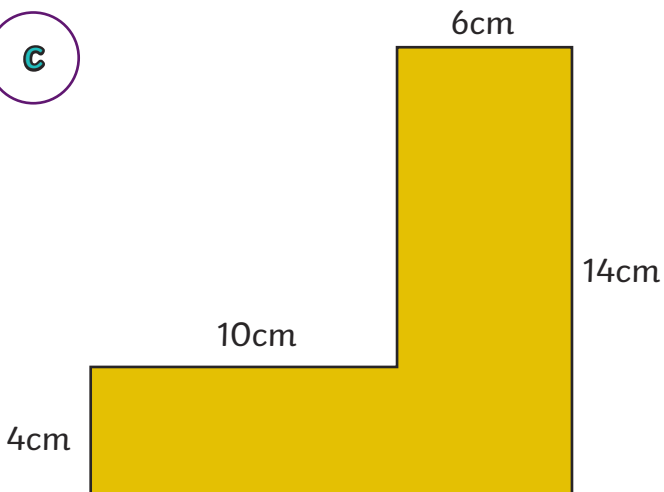
b



Missing side(s):

Perimeter:

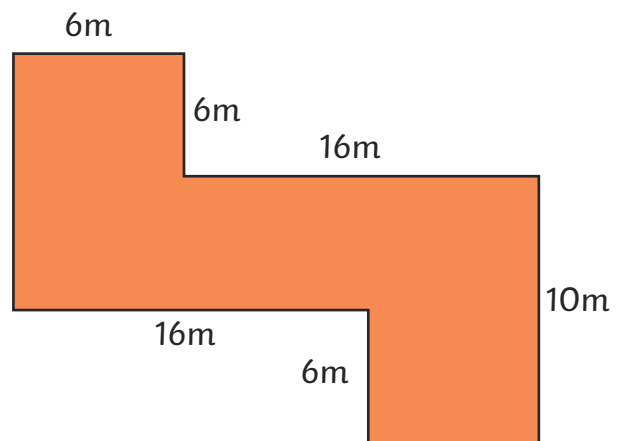
c



Missing side(s):

Perimeter:

d



Missing side(s):

Perimeter:

Perimeter of Rectilinear Shapes **Answers**

1) **Multiple possible answers. An example given in the question.**

- 2) a) **missing side = 8cm**
perimeter = 72cm
- b) **missing side = 15cm**
perimeter = 108cm
- c) **missing sides: 10cm and 16cm**
perimeter: 60cm
- d) **missing sides: 10m and 6m**
perimeter: 76m